


Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-713-116	Serial No. 09/976,601
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Applicant: Chad A. Mirkin, et al.	
		Filing Date: 10/12/01	Group: 1656

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
<i>J</i>	1.	4,193,983	3/18/80	Ullman et al.			
	2.	4,256,834	3/17/81	Zuk et al.			
	3.	4,261,968	4/14/81	Ullman et al.			
	4.	4,313,734	2/2/82	Leuvering			
	5.	4,318,707	3/9/82	Litman et al.			
	6.	4,650,770	3/17/87	Liu et al.			
	7.	4,713,348	12/15/87	Ullman			
	8.	4,853,335	8/1/89	Olsen et al.			
	9.	4,868,104	9/19/89	Kura et al.			
	10.	5,225,064	7/6/93	Henkens et al.			
	11.	5,294,369	3/15/94	Shigekawa et al.			
<i>M</i>	12.	5,384,073	1/24/95	Shigekawa et al.			
	13.	5,384,265	1/24/95	Kidwell et al.			
<i>M</i>	14.	5,460,831	10/24/95	Kossovsky et al.			
	15.	5,472,881	12/5/95	Beebe et al.			
<i>M</i>	16.	5,514,602	05/07/96	Brooks, Jr. et al.			
	17.	5,521,289	5/28/96	Hainfeld et al.			
	18.	5,543,158	8/6/96	Gref et al.			
	19.	5,571,726	11/05/96	Brooks, Jr. et al.			
	20.	5,665,582	9/9/97	Kaushch et al.			
<i>M</i>	21.	5,681,943	10/28/97	Letsinger et al.			

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Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-713-i16	Serial No. 09/976,601
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22.	WO 89/06801	7/27/89	PCT			
23.	WO 97/40181	10/30/97	PCT			
24.	WO 98/04740	2/5/98	PCT			
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30.	Bradley, "The Chemistry of Transition Metal Colloids," <i>Clusters and Colloids: From Theory to Applications</i> , G. Schmid, Editor, BCH, Weinheim, New York, pp. 459-542 (1994)
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11	36.	Dubois & Nuzzo, "Synthesis, Structure, and Properties of Model Organic Surfaces," <i>Annu. Rev. Phys. Chem.</i> , Vol. 43, pp. 437-464 (1992)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Chad A. Mirkin, et al.	
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50.	Roubi, "MOLECULAR MACHINES - Nanodevice with rotating arms assembled from synthetic DNA," <i>Chemical & Engineering News</i> , p. 13, (Jan. 1999)
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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-713-i16	Serial No. 09/976,601
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant: Chad A. Mirkin, et al.	
RECEIVED MAY 10 2002 TECH CENTER 1600/2900		Filing Date: October 12, 2001	Group: 1656

U.S. PATENT DOCUMENTS

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Document Number	Date	Country	Class	Subclass	Translation Yes No

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1.	Brada, et al., "Golden Blot" - Detection of Polyclonal and Monoclonal Antibodies Bound to Antigens on Nitrocellulose by Protein A-Gold Complexes, <i>Analytical Biochemistry</i> , Vol. 42, pp. 79-83 (1984) U.S.
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="font-weight: bold; font-size: 1.1em;">MAY 10 2002</div> <div style="font-weight: bold; font-size: 1.1em;">TECH CENTER 1600/2900</div> </div> </div>		Applicant: Chad A. Mirkin, et al.
		<div style="display: flex; justify-content: space-between;"> <div> Filing Date: October 12, 2001 </div> <div> Group: 1656 </div> </div>

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
N	1. 5,609,907	03/11/97	Natan	—	—	
N	2. 6,025,202	02/15/00	Natan	—	—	
N	3. 6,149,868	11/21/00	Natan, et al.	—	—	

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Document Number	Date	Country	Class	Subclass	Translation
					Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <div style="font-size: 1.5em; font-family: cursive;">J. L. W.</div>	DATE CONSIDERED <div style="font-size: 1.2em;">5/12/03</div>
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<p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p> <p style="text-align: center;">RECEIVED MAY 10 2002 TECH CENTER 1600/2900</p>		Applicant: Chad A. Mirkin, et al.	
		Filing Date: October 12, 2001	Group: 1656



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ca	1.	5,599,668	02/04/97	Stimpson, et al.			
ca	2.	5,990,479	11/23/99	Weiss, et al.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ca	3.	Stimpson, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, pp. 6379-6383, California Institute of Technology (1995) U.S.
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	5.	Storhoff, et al., "One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticle Probes," <i>J. Am. Chem. Soc.</i> , Vol. 120, pp. 1961-1964, American Chemical Society (1998) U.S.
	6.	Velev, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>Langmuir</i> , Vol. 15, No. 11, pp. 3693-3698, American Chemical Society (1999) U.S.
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8.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," I. Theory, <i>Analytical Biochemistry</i> , Vol. 262, pp. 137-156 (1998) U.S.
9.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," II. Experimental Characterization, <i>Analytical Biochemistry</i> , Vol. 262, pp. 157-176 (1998) U.S.

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u	1.	5,288,609	02/08/94	Mroczkowski, et al.			
	2.	5,284,748	02/22/94	Engelhardt, et al.			
	3.	5,360,895	11/01/94	Hainfield, et al.			
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u	11.	WO 93/10564	27 May 93	PCT			
	12.	WO 98/10289	12 March 98	PCT			
	13.	WO 99/23258	14 May 99	PCT			
	14.	WO 99/21934	06 May 99	PCT			
u	15.	WO 99/20789	29 April 99	PCT			

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16.	O.D. Velev, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>Langmuir</i> , Vol. 15, No. 11, pp. 3693-3698, May 25, 1999
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	1.	WO 92/04469	19 March 1992	PCT			X
	2.	WO 90/02205	8 March 1990	PCT			X

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Applicant: **TECH CENTER 1600/2900**

Chad A. Mirkin, et al.

Filing Date:

October 12, 2001

Group:

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<i>M</i>	2.	5,508,164	04/16/96	Kausch, et al.	435	6	10/29/93
<i>M</i>	3.	5,922,537	07/13/99	Ewart, et al.	435	6	11/8/96
<i>M</i>	4.	5,972,615	10/26/99	An, et al.	435	6	01/21/98
<i>M</i>	5.	6,264,825	07/24/01	Blackburn, et al.	205	777.5	06/23/99
<i>M</i>	6.	6,214,560	04/10/01	Yguerabide, et al.	435	7.1	04/18/97

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							Yes	No
<i>M</i>	7.	WO 94/29484	12/22/94	PCT	<u> </u>	<u> </u>		
<i>M</i>	8.	WO 00/25136	05/04/00	PCT	<u> </u>	<u> </u>		

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